



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141891

Mode: Highway

Status: Submitted

US-70

From/Cross Street: US 70 Business

Specific Improvement Type: 2 - Upgrade Arterial to Freeway/Expressway

To: Neuse River

Project Category: Statewide Mobility

Length: 6.3

TIP#: W-5600

Fully Funded in Draft STIP? No

Cost to NCDOT: \$30,913,000

Description:

Upgrade to freeway improving SR 1501 (Swift Creek Rd)/US 70 and SR 1913 (Wilson's Mills Rd)/US 70 at grade intersections to interchanges

Division(s): Division 4

County(s): JOHNSTON

MPOS(s)/RPO(s): Upper Coastal Plain RPO

Project Location



Statewide Mobility Total Score: 21.13

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 30.42 Safety (10%) 55.55 Economic Competitiveness (10%) 11.09 Multimodal + [Freight & Military] (20%) 21.55 [Travel Time] Benefit/Cost (30%) 3.45 Totals: Weight: 100% Weighted Score: 21.13	N/A	N/A

Regional Impact Total Score: 46.08

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (15%) 30.42 Safety (15%) 55.55 Lane Width (10%) 0.00 [Paved] Shoulder Width (10%) 25.00 [Travel Time] Benefit/Cost (20%) 3.45 Totals: Weight: 70% Weighted Score: 16.08	Percent: 15% Points: 100	Percent: 15% Points: 100

Division Needs Total Score: 61.44

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (10%) 30.42 Safety (10%) 55.55 Lane Width (10%) 0.00 [Paved] Shoulder Width (10%) 25.00 [Travel Time] Benefit/Cost (10%) 3.45 Totals: Weight: 50% Weighted Score: 11.44	Percent: 25% Points: 100	Percent: 25% Points: 100

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	6.3
Facility Type:	Multi-Lane Highway
Access Control:	Limited
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	3
Roadway has Curb & Gutter?	No
Volume (AADT):	23736.21
Capacity:	68064.42
Volume/Capacity Ratio:	0.35
% Autos:	89%
% Trucks:	11%
Truck Volume:	2566.07
Crash Density:	33.33
Crash Severity:	100
Critical Crash Rate:	33.33
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	98
Actual Congested Speed:	55
Travel Time Index:	1

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	6.3
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	4637025.06
Travel Time Savings for 30 Years (Autos):	4135725.59
Travel Time Savings for 30 Years (Trucks):	501299.47
Long-Term Employment:	76.07
% Change in Economy:	0.00014576
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Johnston County CTP
CTP/LRTP Completion Year:	2012
Submitted by:	Division 4

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 4	100%	100	100
	0%	0	0
	0%	0	0
TOTAL Division Points		100	100

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Upper Coastal Plain RPO	100%	100	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$26,007,000	Cost Estimation Tool
Right-of-Way Cost:	\$4,380,000	Cost Estimation Tool
Utilities Cost:	\$526,000	Cost Estimation Tool
Total Project Cost:	\$30,913,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$30,913,000	